

## Unit 2 Low NOx Burner Costs Summary

ABT Burners	2,237,415	
ABT Performance Bond	15,000	
ABT Professional Liability Premium	60,000	
ABT Coal Divider	40,800	
ABT, 253 MA Material Upgrade	<u>40,800</u>	
	2,394,015	2,394,015
ABB Scanners	212,515	
ABB, SMCS	10,000	
ABB, Parts	<u>11,288</u>	
	233,803	233,803
ABB Scanner Scope Changes		
States sliding link terminals	5,760	
LED	6,480	
Wired	14,480	
Scanner Cable	<u>36,000</u>	
	62,720	62,720
TEI Installation	1,616,800	1,616,800
Air Monitor Selection (Over Eastern)	35,220	
		<u>35,220</u>
		4,342,558

**PART F - DIVISION F2**

**ATTACHMENT 2**

**Burner Performance Guarantees**

Burner Performance: The new burners shall provide for a continuous boiler operation of 6,900,000 lbs/hr output, 1005° F superheat and 1005° F reheat temperature under all operating conditions. Bidders shall state the following burner and scanner performance guarantees and submit with the bid package:

Maximum burner NOx and CO production under all modes of operation:

\_\_\_\_\_

Maximum burner BTU throughput:

\_\_\_\_\_

Burner and scanner system temperature tolerance and thermal degradation life:

\_\_\_\_\_

Time within which burner register assembly shall remain fully operable by hand:

\_\_\_\_\_

Combustion zone stability (Ignition location/stability, flame shape/color):

\_\_\_\_\_

Spec. XXXXXX

Ash deposition (At burner throat, OFA ports and superheat pendants):

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Maximum burner out-of-service cooling air requirements (cfm per compartment):

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Minimum in-service air flow with associated emissions (assuming 10% total overfire air flow):

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Maximum in-service air flow with associated emissions (assuming 10% total overfire air flow):

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Maximum wear life of primary air/coal path components (Minimum 4 years):

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Spec. XXXXX

**PART F - DIVISION F2**

**ATTACHMENT 9**

**Secondary Air Duct and Windbox Drawings**

F2-1

**IP7\_030061**

Spec. XXXXX

**PART F - DIVISION F2**

**ATTACHMENT 1**

**Scanner, Lighter and Fuel Specifications and Outline Drawings**

F2-1

**IP7\_030062**

**PART F - DIVISION F2**

**ATTACHMENT 2**

**Burner Performance Guarantees**

**Burner Performance:** The new burners shall provide for a continuous boiler operation of 6,900,000 lbs/hr output, 1005° F superheat and 1005° F reheat temperature under all operating conditions. Bidders shall state the following burner and scanner performance guarantees and submit with the bid package:

Maximum burner NOx and CO production under all modes of operation:

\_\_\_\_\_

Maximum burner BTU throughput:

\_\_\_\_\_

Burner and scanner system temperature tolerance and thermal degradation life:

\_\_\_\_\_

Time within which burner register assembly shall remain fully operable by hand

\_\_\_\_\_

Combustion zone stability (Ignition location/stability, flame shape/color):

\_\_\_\_\_

Ash deposition (At burner throat, OFA ports and superheat pendants):

\_\_\_\_\_

Maximum burner out-of-service cooling air requirements (cfm per compartment)

\_\_\_\_\_

Spec. XXXXX

Minimum in-service air flow with associated emissions (assuming 10% total overfire air flow)

Maximum in-service air flow with associated emissions (assuming 10% total overfire air flow)

Maximum wear life of primary air/coal path components (Minimum 4 years)

Spec. XXXXX

**PART F - DIVISION F2**

**ATTACHMENT 3**

**Bid Pricing Sheet**

Bid price to purchase (48) low NOx burners, per specification, w/o scanners:

\_\_\_\_\_

Bid price to purchase (48) scanners and ancillary hardware, per specification:

\_\_\_\_\_

Bid price for installation of (48) burners and (48) scanners:

\_\_\_\_\_

Total Bid Price

\_\_\_\_\_



Spec. XXXXX

**PART F - DIVISION F2**

**ATTACHMENT 4**

**Fuel Oil Analysis Report**

F2-1

**IP7\_030066**

Spec. XXXXX

**PART F - DIVISION F2**

**ATTACHMENT 5**

**General Coal Properties**

F2-1

**IP7\_030067**

Spec. XXXXX

**PART F - DIVISION F2**

**ATTACHMENT 6**

**FD Fan Performance**

F2-1

**IP7\_030068**

Spec. XXXXX

**PART F - DIVISION F2**

**ATTACHMENT 7**

**PA Fan Performance**

F2-1

**IP7\_030069**

Spec. XXXXX

**PART F - DIVISION F2**

**ATTACHMENT 8**

**Existing Burner General Layout**

F2-1

**IP7\_030070**